# **Product datasheet**

Specification





## Residual current protection relay, VigiPacT RH10M, 30mA, 12/24VAC 50/60Hz, 12/48VDC, DIN rail mounting

56100

### Main

Iviaiii	
Range	VigiPacT
Device Short Name	RH10M
Product Or Component Type	Residual current protection relay
Relay Application	Protection relay
Mounting Support	DIN rail
Earth-Leakage Protection Class	Type A
Type Of Setting	None
Residual Earth-Leakage Sensitity Adjustment Type	Fixed
Earth-Leakage Sensitivity	0.03 A
Earth-Leakage Time Delay	Instantaneous
Current Sensors Compatibility	VigiPacT TOA earth leakage current sensor VigiPacT A earth leakage current sensor VigiPacT L earth leakage current sensor
[Ithe] Conventional Enclosed Thermal Current	8 A
Minimum Load	10 mA at 12 V
[Us] Rated Supply Voltage	1224 V AC 50/60 Hz 55120 % 1248 V DC 55120 %
Power Consumption In Va	4 VA
Monitored Distribution System	1000 V - AC at 50/60 Hz (maximum) 1000 V - AC at 400 Hz (maximum)
Earthing System	IT TT TN-S
[Uimp] Rated Impulse Withstand Voltage	8 kV
Reset	Manual reset

## Complementary

Test Function	Remote test Local
Monitoring	Electronics (continuous) Power supply (continuous) Relay/sensor link (continuous)
Type Of Measurement	Earth fault current internal measurement, range: 80100 %
Tamperproof Of Settings	Protected by sealable cover

Connections - Terminals	Auxiliary power supply: terminal block cable(s) 0.22.5 mm² flexible AWG 24AWG 12
	Auxiliary power supply: terminal block cable(s) 0.22.5 mm² rigid AWG 24AWG 12 Auxiliary power supply: terminal block cable(s) 0.252.5 mm² flexible AWG 24AWG 12
	Fault: screw terminal cable(s) 0.22.5 mm² flexible AWG 24AWG 12 Fault: screw terminal cable(s) 0.24 mm² rigid AWG 24AWG 12
	Fault: screw terminal cable(s) 0.252.5 mm² flexible AWG 24AWG 12
	Relay test and fault reset: screw terminal cable(s) 0.141 mm² flexible AWG 26AWG 16
	Relay test and fault reset: screw terminal cable(s) 0.141.5 mm² rigid AWG 26AWG 16
	Relay test and fault reset: screw terminal cable(s) 0.250.5 mm² flexible AWG 26AWG 16
	Sensor: screw terminal cable(s) 0.141 mm² flexible AWG 26AWG 16
	Sensor: screw terminal cable(s) 0.141.5 mm² rigid AWG 26AWG 16
	Sensor: screw terminal cable(s) 0.250.5 mm² flexible AWG 26AWG 16
	Voltage presence: screw terminal cable(s) 0.22.5 mm² flexible AWG 24AWG 12
	Voltage presence: screw terminal cable(s) 0.24 mm² rigid AWG 24AWG 12
	Voltage presence: screw terminal cable(s) 0.252.5 mm² flexible AWG 24AWG 12
Wire Stripping Length	Auxiliary power supply: 7 mm for top connection
	Fault: 8 mm for bottom connection
	Relay test and fault reset: 5 mm for bottom connection
	Sensor: 5 mm for top connection
	Voltage presence: 8 mm for bottom connection
Tightening Torque	Auxiliary power supply: 0.6 N.m top
	Fault: 0.6 N.m bottom
	Relay test and fault reset: 0.25 N.m bottom
	Sensor: 0.25 N.m top
	Voltage presence: 0.6 N.m bottom
9 Mm Pitches	6
Standards	EN/IEC 60947-2 Annex M
	EN/IEC 60755
	UL 1053
	CAN/CSA C22.2 No. 144
Width	54 mm
Height	81 mm
Depth	74 mm
Net Weight	0.3 kg
Ip Degree Of Protection	IP40 on front face: conforming to EN/IEC 60529
	IP30 on side parts: conforming to EN/IEC 60529
	IP20 on connection terminals: conforming to EN/IEC 60529
lk Degree Of Protection	IK07 conforming to EN 50102
Mechanical Robustness	Fire resistance conforming to IEC 60695-2-1
	IK protection 2 joules: IK07 conforming to EN 50102
	Vibrations 13.2100 Hz: 0.7 g
	Vibrations 213.2 Hz: +/- 1 mm

### **Environment**

Overvoltage Category	IV
Electrical Shock Protection Class	Class II
Electromagnetic Compatibility	Conducted and radiated emissions: , B, conforming to CISPR 11 Conducted radio-frequency immunity test: , 3, conforming to IEC 61000-4-6 Electrostatic discharge immunity test: , 4, conforming to IEC 61000-4-2 High-energy conducted susceptibility: , 4, conforming to IEC 61000-4-5 Low-energy conducted susceptibility: , 4, conforming to IEC 61000-4-4 Radiated susceptibility: , 3, conforming to IEC 61000-4-3
Relative Humidity	95 % at 55 °C
Pollution Degree	3 conforming to IEC 60664-1
Ambient Air Temperature For Operation	-3570 °C

Ambient Air Temperature For -55...85 °C Storage

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	8.5 cm
Package 1 Width	8.0 cm
Package 1 Length	9.0 cm
Package 1 Weight	240.0 g

## **Contractual warranty**

Warranty 18 months



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Transparency RoHS/REACh

### Well-being performance

<b>Ø</b>	Mercury Free	
	Rohs Exemption Information	Yes
<b>②</b>	Pvc Free	

#### **Certifications & Standards**

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration  Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information